Listing and Amendments to the Claims

This listing of claims will replace the claims that were published in the PCT Application:

1.   (currently amended) ~~Controllable~~ RF-circuit including a controllable mixer ~~(3)~~ having at least one transistor ~~(12)~~, to which an oscillator signal ~~(LO)~~ and an input signal ~~(RF$_{IN}$)~~ are supplied, with the input signal ~~(RF$_{IN}$)~~ comprising a useful signal ~~(RF$_{use}$)~~ and further signals ~~(RF$_{adj}$)~~, and with an output signal ~~(IF)~~ being produced as an output of the mixer ~~(3), characterized in that~~ , wherein a controller is provided, which applies a control signal ~~(U$_S$)~~ to the mixer as a function of the signal quality of the output signal ~~(IF), in that~~ , wherein the operating point of the at least one transistor ~~(12)~~ can be set by means of the control signal ~~(U$_S$)~~, in which case the intermodulation immunity and/or the noise in the output signal ~~(IF)~~ can be varied as a function of the operating point of the at least one transistor ~~(12)~~ wherein a controllable portion of the overall gain of the RF-circuit is determined by the operating point of the at least one transistor of the mixer.

2.   (currently amended) Controllable mixer according to Claim 1, ~~characterized in that~~ wherein a demodulator ~~(8)~~ which is connected downstream from the mixer ~~(3)~~, and an evaluation circuit ~~(7)~~ are provided for assessment of the signal quality of the output signal ~~(IF)~~.

3.   (currently amended) Controllable mixer according to Claim 2, ~~characterized in that~~ wherein the evaluation circuit ~~(7)~~ assesses the error rate of a digitally coded signal.

4.   (currently amended) Controllable mixer according to ~~one of the preceding claims, characterized in that~~ Claim 1, wherein a memory ~~(5)~~ is provided for recording initial values, on the basis of which the signal quality can be assessed and optimized.

5. (currently amended) Controllable mixer according to Claim 4, ~~characterized in that~~ <u>wherein</u> the initial values comprise information about a desired minimum signal quality, the symbol rate, the code rate, and/or the modulation method, and optimization routines for reception optimization can be selected as a function of the initial values.

6. (currently amended) Method for controlling a mixer ~~(3)~~ in a receiver having at least one transistor ~~(12)~~ to which an oscillator signal ~~(LO)~~ and an input signal ~~(RF$_{IN}$)~~ are supplied, with the input signal ~~(RF$_{IN}$)~~ comprising a useful signal ~~(RF$_{use}$)~~ and further signals ~~(RF$_{adj}$)~~, and with an output signal ~~(IF)~~ being produced as an output of the mixer ~~(3), characterized in that~~ <u>,</u> the method ~~comprises~~ <u>comprising</u> the following steps:
- assessing the signal quality of the output signal ~~(IF)~~;
- setting the operating point of the at least one transistor ~~(12)~~ as a function of the quality of the output signal ~~(IF)~~;
~~and in that~~ <u>wherein</u> the intermodulation immunity and/or the noise of the at least one transistor ~~(12)~~ are set by means of the operating point of the at least one transistor ~~(12)~~
<u>wherein the method is further comprised by</u>
<u>- setting a controllable portion of the overall gain of the RF-circuit in by setting the operating point of the at least one transistor of the mixer.</u>

7. (currently amended) Method according to Claim 6, ~~characterized in that~~ <u>wherein</u> the error rate of a digitally coded signal is evaluated in order to assess the signal quality.

8. (currently amended) Method according to Claim 6 ~~or 7,~~ ~~characterized in that~~ <u>, wherein</u> initial values which are stored at the start are selected in order to assess the signal quality and in order to set the operating point of the transistor ~~(12)~~.

9.   (currently amended) Method according to Claim 8, ~~characterized in that~~ <u>wherein</u> different initial values and/or optimization routines are selected for different modulation methods, code rates and/or symbol rates.